# SEQUENCE LISTING

# PCT/US2004/037241 **AP20 Rec'd FOT/PTO 0.5 MAY 2006**

	•
<110>	AMGEN INC.
	Aldrich, Teri
•	Shen, Wenyan
	Jacobsen, Frederick W.
•	Morris, Arvia E. (
	Allen, Martin J.
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<b>ノエゼエン</b>	2004-11-04

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- Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser 50 55 60
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- Arg Val Glu Ile Lys Thr Cys Gly Gly Gly Ser Lys Pro Pro Thr Cys 100 105 110
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Arg Glu Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys 245 250 255

Gly Phe Tyr Pro Ser Asp Ile Val Val Glu Trp Glu Ser Ser Gly Gln 260 265 270

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- Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr 65 70 75 80
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- Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr 115 120 125
- Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val 130 135 140
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Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr 65 70 75 80



Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp Lys 85 90 95

Arg Val Glu Phe Thr Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Leu 100 105 110

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Glu Val His His Ala Gln Thr Lys Pro Arg Glu Arg Gln Phe Asn Ser 165 170 175

Thr Tyr Arg Val Val Ser Val Leu Thr Val Thr His Gln Asp Trp Leu 180 185 190

Asn Gly Lys Glu Tyr Thr Cys Lys Val Ser Asn Lys Gly Leu Pro Ala 195 200 205

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro 210 215 220

Gln Val Tyr Ile Leu Pro Pro Pro Gln Glu Glu Leu Thr Lys Asn Gln 225 230 235 240

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Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Thr Tyr Lys Thr Thr 260 265 270

Pro Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Leu Tyr Ser Lys Leu 275 280 285

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gaccacgccg	cccgtgctgg	actccgacgg	ctcctacttc	ctctacagca	agctcaccgt	900
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<210> 12

<211> 335

<212> PRT

<213> Macaca fascicularis

<400> 12

Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Val Ser 1 5 10 15

Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val 20 25 30

Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala 35 40 45

Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly 50 55 60

Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly 70 75 80

Thr Gln Thr Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys 85 90 95

Val Asp Lys Arg Val Glu Phe Thr Arg Pro Cys Asp Asp Thr Thr Pro 100 105 110

Pro Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val 115 120 125

Phe Val Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr 130 135 140

Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu 145 150 155 160

360

													•					
	Val	Gln	Phe		Trp 165	Tyr	Val	Asp	Gly	Val 170	Glu	Val	His	Asn	Ala <b>17</b> 5	Gln		
,	Thr	Lys	Pro	Arg 180	Glu	Arg	Gln	Phe	Asn 185	Ser	Thr		Arg	Val 190	Val	Ser	٠.	
	Val	Leu	Thr 195	Val	Thr	His	Gln	Asp 200	Trp	Leu	Asn	Gly	Lys 205	Glu	Tyr	Thr		
	Cys	Lys 210	Val		Asn	Lys	Ala 215	Leu	Pro	Ala	Pro	Ile 220	Gln	Lys	Thr	Ile		
	Ser 225	Lys	Asp	Lys	Gly	Gln 230	Pro	Arg	Glu	Pro	Gln 235	Val	Tyr	Thr	Leu	Pro 240		
	Pro	Ser	Arg	Glu	Glu 245	Leu	Thr	Lys	Asn	Gln 250	Val	Ser	Leu	Thr	Cys 255	Leu		
	Val	Lys	Gly	Phe 260	Tyr	Pro	Ser	Asp	Ile 265	Val	Val	Glu	Trp	Glu 270	Ser	Ser		
	Gly	Gln	Pro 275		Asn	Thr	Tyr	Lys 280		Thr	Pro	Pro	Val 285	Leu	Asp	Ser		
	Asp	Gly 290		Tyr	Phe	Leu	Tyr 295		Lys	Leu	Thr	Val 300	Asp	Lys	Ser	Arg		
	Trp 305		Gln	Gly	Asn	Val 310		Ser	Cys	Ser	Val 315		His	Glu	Ala	Leu 320		
•	His	Asn	His	Туг	Thr 325		Lys	Ser	Leu	Ser 330	Leu	Ser	Pro	Gly	Lys 335			
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		00> cctct		ccad	ccaag	igg o	ccat	cggt	c tt	cccc	ctgg	tgt	cctg	rctc	cagg	agcacc	$\epsilon$	0
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					•											ctacag	18	30
																ggcacc	24	10
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·cagttcaact	ggtacgtgga	cggcgcggag	gtgcatcatg	cccagacgaa	gccacgggag	540
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cccagcgaca	tcgtcgtgga	gtgggagagc	agcgggcagc	cggagaacac	ctacaagacc	840
acgccgcccg	tgctggactc	cgacggctcc	tacttcctct	acagcaagct	caccgtggac	900
aagagcaggt	ggcagcaggg	gaacgtcttc	tcatgctccg	tgatgcatga	ggctctgcac	960
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<210> 14

<211> 333

<212> PRT

<213> Macaca fascicularis

<400> 14

Arg Leu Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Val Ser Cys Ser 1 5 10 15

Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp 20 25 30

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr 35 40 45

Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr 50 55 60

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln 65 70 75 80

Thr Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp 85 90 95

Lys Arg Val Glu Phe Thr Arg Pro Cys Asp Asp Thr Thr Pro Pro Cys 100 105 110

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Val 115 120 125

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu 130 . 135 140 Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln 150 . 145 . . 155 Phe Asn Trp Tyr Val Asp Gly Ala Glu Val His His Ala Gln Thr Lys . 165 170 Pro Arg Glu Thr Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu 180 Thr Val Thr His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Thr Cys Lys . 195 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Gln Lys Thr Ile Ser Lys 210 215 Asp Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser 225 230 235 Arg Glu Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys 245 250 Gly Phe Tyr Pro Ser Asp Ile Val Val Glu Trp Glu Ser Ser Gly Gln 260 265 Pro Glu Asn Thr Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly 275 280 Ser Tyr Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln 290 295 300

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys 325 330

310

<210> 15

305

<211> 1584

<212> DNA

<213> Macaca fascicularis

<400> 15

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Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn

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tggaactcag gcgccctgac cagcggcgtg cacaccttcc aggctgtcct acagtcctca	180
gggctctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cactcagacc	240
tacgtctgca acgtcgttca tgagcccagc aacaccaagg tggacaagac agttggtgag	300
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aactctggct gtgcagcccc agcccagggc agcagggcag gccccgtctg tcttctcacc	420
cagaggcctc tgcccacccc actcatgctc agggagccag tcttctggct ttttccacca	480
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tgctgggctc agacctgcca agagccatat ctgggaggac cctgccctga cctaagccca	600
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aacteceaat ettetetetg cagggetece atgtegttee aegtgeeeae egtgeeeagg	720
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<sup>&</sup>lt;210> 16

<sup>&</sup>lt;211> 326 <212> PRT

<sup>&</sup>lt;213> Macaca fascicularis

<sup>&</sup>lt;400> 16

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Ser Cys Ser Arg

1 10 15

Ser Thr Ser Gln Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser 35 40 45

Gly Val His Thr Phe Gln Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr 65 70 75 80

Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp Lys 85 90 95

Thr Val Gly Leu Pro Cys Arg Ser Thr Cys Pro Pro Cys Pro Ala Glu 100 105 110

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp 115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp 130 135 140

Val Ser Gln Glu Glu Pro Asp Val Lys Phe Asn Trp Tyr Val Asp Gly
145 150 155 160

Val Glu Val His Asn Ala Gln Thr Lys Pro Arg Glu Glu Gln Phe Asn 165 170 175

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Thr His Gln Asp Trp 180 185 190

Leu Asn Gly Lys Glu Tyr Thr Cys Lys Val Ser Asn Lys Ala Leu Pro 195 200 205

Ala Pro Lys Gln Lys Thr Val Ser Lys Thr Lys Gly Gln Pro Arg Glu 210 215 220

Pro Gln Val Tyr Thr Leu Pro Pro Pro Arg Glu Glu Leu Thr Lys Asn 225 230 235 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile 245 250 255

Val Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn Thr Tyr Lys Thr 260 265 270

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Leu Tyr Ser Lys 275 280 285

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Thr Phe Ser Cys 290 295 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu 305 310 315 320

Ser Val Ser Pro Gly Lys 325

<210> 17

<211> 1584

<212> DNA

<213> Macaca fascicularis

<400> 17

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gacggctcct acttcctcta	cagcaagctc	accgtggaca	agagcaggtg	gcagcagggg	1500
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<210> 18

<211> 326

<212> PRT

<213> Macaca fascicularis

<400> 18

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Ser Cys Ser Arg
1 5 10 15

Ser Thr Ser Gln Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr 20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser 35 40 45

Gly Val His Thr Phe Gln Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr 65 70 75 80

Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp Lys 85 90 95

Arg Val Gly Leu Pro Cys Arg Ser Thr Cys Pro Pro Cys Pro Ala Glu 100 105 110

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp 115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp 135

Val Ser Gln Glu Glu Pro Asp Val Lys Phe Asn Trp Tyr Val Asp Gly 150 155 160

Val Glu Val His Asn Ala Gln Thr Lys Pro Arg Glu Glu Gln Phe Asn . 165 170 175

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Thr His Gln Asp Trp 180

Leu Asn Gly Lys Glu Tyr Thr Cys Lys Val Ser Asn Lys Ala Leu Pro 195 200 205

Ala Pro Lys Gln Lys Thr Val Ser Lys Thr Lys Gly Gln Pro Arg Glu 210 220

Pro Gln Val Tyr Thr Leu Pro Pro Pro Arg Glu Glu Leu Thr Lys Asn 225 235 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile 250 255

Val Val Glu Trp Ala Ser Asn Gly Gln Pro Glu Asn Thr Tyr Lys Thr 260 265 270

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Leu Tyr Ser Lys 275 280 285

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Thr Phe Ser Cys 290 295 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu 305 315

Ser Val Ser Pro Gly Lys 325

<210> 19

<211> 978

<212> DNA

<213> Macaca fascicularis

<400> 19

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WO 2005/047325 . . . PCT/US2004/037241

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ctctactccc	tcagcagcgt	ggtgaccgtg	ccctccagca	gcttgggcac	ccagacctac	240
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tgtcgttcca	cgtgcccacc	gtgcccagct	gaactcctgg	ggggaccgtc	agtcttcctc	360
ttccccccaa	aacccaagga	caccctcatg	atttcccgga	cccctgaggt	cacgtgcgtg	420
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gaggtgcaca	atgcccagac	aaagccgcgg	gaggagcagt	tcaacagcac	gtatcgcgtg	540
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gtctccaaca	aagccctccc	ggccccaagg	cagaaaactg	tctccaaaac	caaagggcag	660
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<210> 20

<211> 325

<212> PRT

<213> Macaca fascicularis

<400> 20

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Ser Cys Ser Arg Ser 1 5 10 15

Thr Ser Gln Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe 20 25 30

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly 35 40 45

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu 50 55 60

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr 65 70 75 80

Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp Lys Thr 85 90 95

- Val Gly Leu Pro Cys Arg Ser Thr Cys Pro Pro Cys Pro Ala Glu Leu 100 105 110
- Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
  115 120 125
- Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val 130 135 140
- Ser Gln Glu Glu Pro Asp Val Lys Phe Asn Trp Tyr Val Asp Gly Val 145 150 155 160
- Glu Val His Asn Ala Gln Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser 165 170 175
- Thr Tyr Arg Val Val Ser Val Leu Thr Val Thr His Gln Asp Trp Leu 180 185 190
- Asn Gly Lys Glu Tyr Thr Cys Lys Val Ser Asn Lys Ala Leu Pro Ala 195 200 205
- Pro Arg Gln Lys Thr Val Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro 210 215 220
- Gln Val Tyr Thr Leu Pro Pro Pro Arg Glu Glu Leu Thr Lys Asn Gln 225 230 235 240
- Val Ser Leu Thr Cys Leu Ile Lys Gly Phe Tyr Pro Ser Asp Ile Val 245 250 255
- Val Glu Trp Ala Ser Asn Gly Gln Pro Glu Asn Thr Tyr Lys Thr Thr 260 265 270
- Pro Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Leu Tyr Ser Lys Leu 275 280 285,
- Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Thr Phe Ser Cys Ser 290 295 300
- Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser 305 310 315 320

Leu Ser Pro Gly Lys 325

<210> 21 <211> 1584 <212> DNA <213> Macaca fascicularis

<400> 21·

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1584

- <210>. 22
- <211> 326
- <212> PRT
- <213> Macaca fascicularis
- <400> 22
- Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Ser Cys Ser Arg

  1 10 15
- Ser Thr Ser Gln Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr 20 25 30
- Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser 35 40 45
- Gly Val His Thr Phe Gln Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser 50 55 60
- Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr 65 70 75 80
- Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp Lys 85 90 95
- Arg Val Gly Leu Pro Cys Arg Ser Thr Cys Pro Pro Cys Pro Ala Glu 100 105 110
- Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp 115 120 125
- Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp 130 135 140
- Val Ser Gln Glu Glu Pro Asp Val Lys Phe Asn Trp Tyr Val Asp Gly
  145 150 155 160
- Val Glu Val His Asn Ala Gln Thr Lys Pro Arg Glu Glu Gln Phe Asn 165 170 175
- Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Thr His Gln Asp Trp
  180 185 190
- Leu Asn Gly Lys Glu Tyr Thr Cys Lys Val Ser Asn Lys Gly Leu Pro
  195 200 205

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu 210 215 220

Pro Gln Val Tyr Ile Leu Pro Pro Pro Gln Glu Glu Leu Thr Lys Asn 225 230 235 240

Gln Val Ser Leu Thr Cys Leu Val Thr Gly Phe Tyr Pro Ser Asp Ile 245 250 255

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Thr Tyr Lys Thr 260 265 270

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Leu Tyr Ser Lys 275 280 285

Leu Ile Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Thr Phe Ser Cys 290 295 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu 305 310 315 320

Ser Val Ser Pro Gly Lys 325

<210> 23

<211> 996

<212> DNA

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Phe Asn Trp Tyr Val Asn Gly Ala Glu Val His His Ala Gln Thr Lys 165 170 175

Pro Arg Glu Thr Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu 180 185 190

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Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Gln Lys Thr Ile Ser Lys 210 215 220

Asp Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser 225 230 235 240

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Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

<210> 62

<211> 115

<212> PRT

<213> Artificial Sequence

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<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 62

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Ser Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Ser Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Tyr Phe Thr His Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

<210> 63

<211> 115

<212> PRT

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<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 63

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Ser Tyr Ala Asp Ser Val Lys 50 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Trp Tyr Asn Asn Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

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<212> PRT

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<223> Antibody variable domain sequences that recognize anti IL-4R

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Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 , 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Tyr Phe Pro Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

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<211> 115

<212> PRT

<213> Artificial Sequence

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<223> Antibody variable domain sequences that recognize anti IL-4R

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Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

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Val Ser Ser 115

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<223> Antibody variable domain sequences that recognize anti IL-4R

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Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

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Val Ser

<210> 67

<211> 115

<212> PRT

<213> Artificial Sequence

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<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 67

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Ser Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Trp Tyr Pro Trp Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

<210> 68 <211> 115

<212> PRT

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<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 68

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Trp Phe Pro Trp Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

<210> 69

<211> 115

<212> PRT

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<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 69

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Ser Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Trp Phe Pro Trp Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

<210> 70

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 70

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Trp Tyr Pro Trp Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115 <210> 71

<211> 115

<212>. PRT

<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 71

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Ser Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Trp Tyr Pro Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser 115

<210> 72

<211> 115

<212> PRT

<213> Artificial Sequence

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<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 72

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Gly Thr Gly Gly Ala Thr Ser Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Tyr Phe Pro Trp Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

Val Ser Ser 115

<210> 73

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 73

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Arg Asn 20 25 30

Ala Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45 .

Ser Gly Ile Gly Thr Gly Gly Ala Thr Ser Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Ser Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Tyr Tyr Phe Pro Trp Trp Gly Gln Gly Thr Leu Val Thr 100 105 110

60

120

				•												
Val	Sei	Ser 115					•		• •				:			
<21 <21 <21 <21	1> 2>	74 115 PRT Arti	fici	al S	eque	nce								٠.		
<22 <22		Anti	body	var	iabl	e do	main	seq	uenc	es t	hat	reco	gniz	e an	ti II	-4R
<40	0>	74		;												
Glu 1	Val	Gln	Leu	Val 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly	
Ser	Leu	. Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Arg	Asn	•
Ala	Met	Phe 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val	•
Ser	Gly 50	Ile	Gly	Thr	Gly	Gly 55	Ala	Thr	Ser	туr	Ala 60	Asp	Ser	Val	Lys	
Gly 65	Arg	Phe	Thr	Ile	Ser 70	Arg	Asp	Asn	Ala	Lys 75	Asn	Ser	Leu	Tyr	Leu 80	
Gln	Met	Asn	Ser	Leu 85	Arg	Ala	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala	
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Val	Ser	Ser 115														
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<220 <223		ntib	ody	vari	able	dom	ain	sequ	ence	s th	at r	econ	nize	ant	i IL-	. <b>A</b> Þ
-100		, E						_			_	9				210

gaaattgtgt tgacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc

ctctcctgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa

cctggccagg c	ccccaggct	cctcatctt	ggrgcatcca	gcagggccac	tggcatccca	180
gacaggttca g	rtggcagtgg	gtctgggaca	gacttcactc	tcaccatcag	cagactggag	240
cctgaagatt t	tgcagtgta	ttactgtcag	cagtatggta	gctcacctcc	gtggacgttc	300
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cctggccagg (	ctcccaggct	cctcatctat	ggtgcatcca	gcagggcccc	tggcatccca	180
gacaggttca (	gtggcagtgg	gtctgggaca	gacttcactc	tcaccatcag	cagactggag	240
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ggccaaggga d	ccaaggtgga	gatcaaa				327
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ctctcctgca	gggccagtca	gactgttaac	agcgactact	tagcctggta	ccagcagaaa	120
ccgggccagg	ctcccaggct	cctcatctat	ggtgcatcca	gcagggccac	tggcatccca	180
gacaggttca	gtggcagtgg	gtctgggaca	gacttcactc	tcaccatcag	cagactggag	240
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<400> 78 gaaattgtga	tgacgcagtc	tccaggcacc	ctgtctttgt	ctccagggga	aagagccacc	60
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cctggccagg	ctcccaggct	cctcatctat	ggtgcatcta	gcagggcctc	tggcatccca	180
gacaggttca	gtggcagtgg	gtttgggaca	gacttcactc	tcaccatcag	cagactggag	240
cctgaagatt	ttgcaatata	ttactgtcag	cagtatggta	gctcacctcc	gtggacgttc	300
ggccaaggga	ccaaggtgga	aatcaaa		•		327
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gacaggttca	gtggcagtgg	gtctgggaca	gacttcactc	tcacgatcag	cagactggag	240
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<210> 81

<211> 109

<212> PRT



<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 81

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu 35 40 45

Ile Phe Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro 85 90 95

Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys 100 105

<210> 82

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 82

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Asn Ser 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Pro Gly Ile Pro Asp Arg Phe Ser
50 55 60

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Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asp His Ser Ala 85 90 95

Gly Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys 100 105

<210> 83

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 83

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Thr Val Asn Ser Asp 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Arg Ser Pro 85 90 95

Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Asp Ile Lys 100 105

<210> 84

<211> 109

<212> PRT .

<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 84

Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

GIu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asp 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu 35 40 .45

Ile Tyr Gly Ala Ser Ser Arg Ala Ser Gly Ile Pro Asp Arg Phe Ser
50 ' 55 60

Gly Ser Gly Phe Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 65 70 75 80

Pro Glu Asp Phe Ala Ile Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro 85 90 95

Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 85

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 85

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Asn Ser Asn 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu 35 40 45

Ile Tyr Gly Thr Ser Tyr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Arg Leu Glu 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro 85 90 95



Pro Trp Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 86

<211> 109

<212> PRT

<213> Artificial Sequence

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<223> Antibody variable domain sequences that recognize anti IL-4R

<400> 86

Asp Ile Val Leu Thr Gln Thr Pro Ala Thr Leu Ser Leu Ser Pro Gly 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Gly Ser Ser 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro 85 90 95

Pro Trp Met Phe Gly Gln Gly Thr Lys Val Glu Ile Lys 100 105